

10

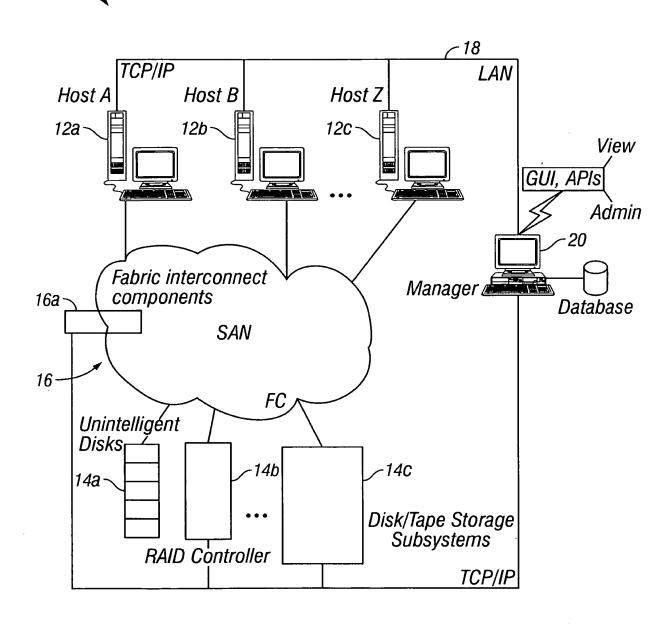


FIG. 1

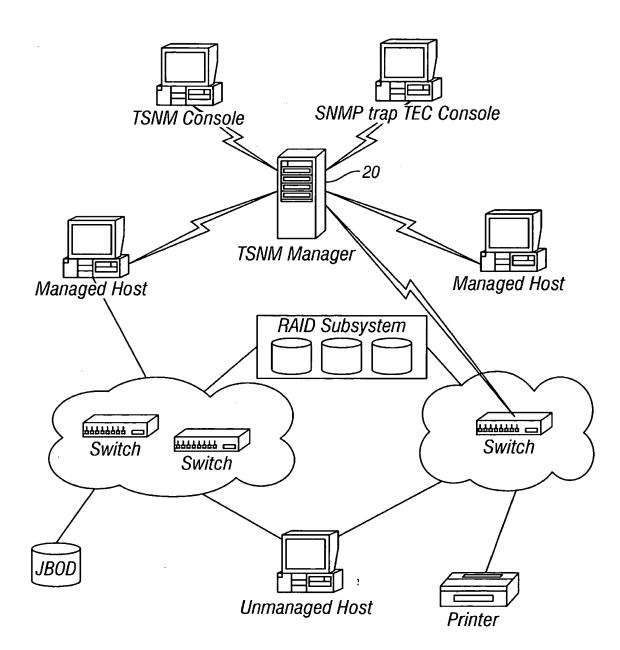
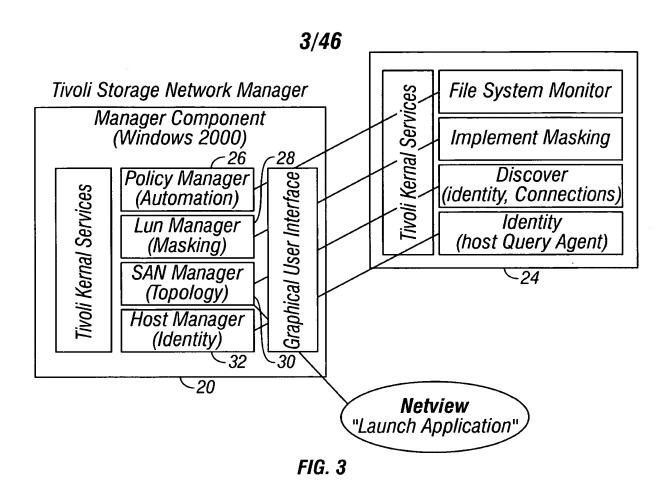


FIG. 2



Manager & Agent Communication

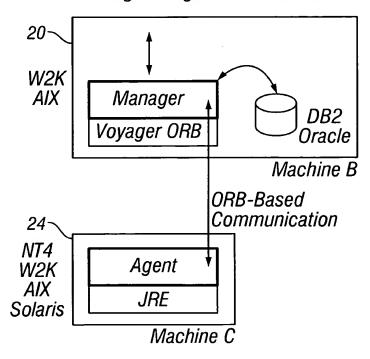
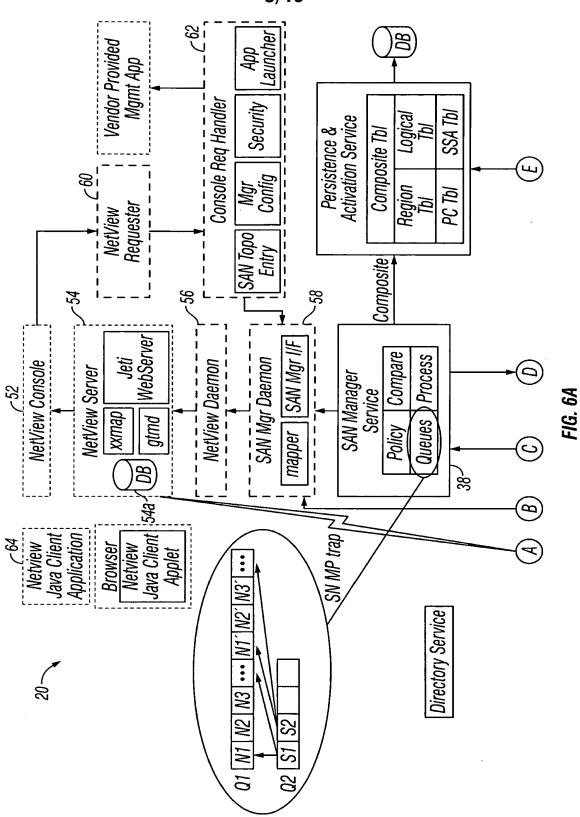


FIG. 4

	Common SANDRParms SAMEvent	SANIndex, SANLicense	
· ~-I	File System Monitoring/ Extension	SANStorAuto	
MANAGER	LUN Management SANLunMgt		Framework
·	Network Management SANManagerService, SANQueryEngine,	SANEventCorrelatorFactory, SANHostMgr, OutbandChangeAgent	

FIG. 5



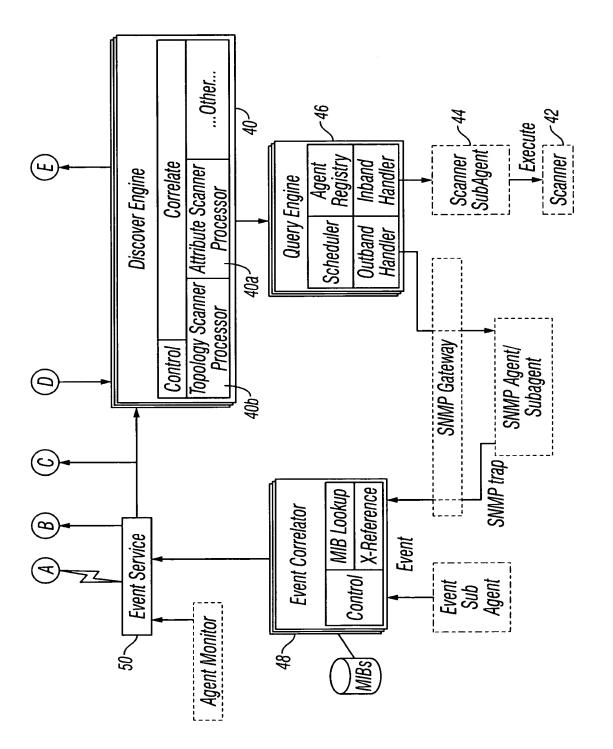


FIG. 6B

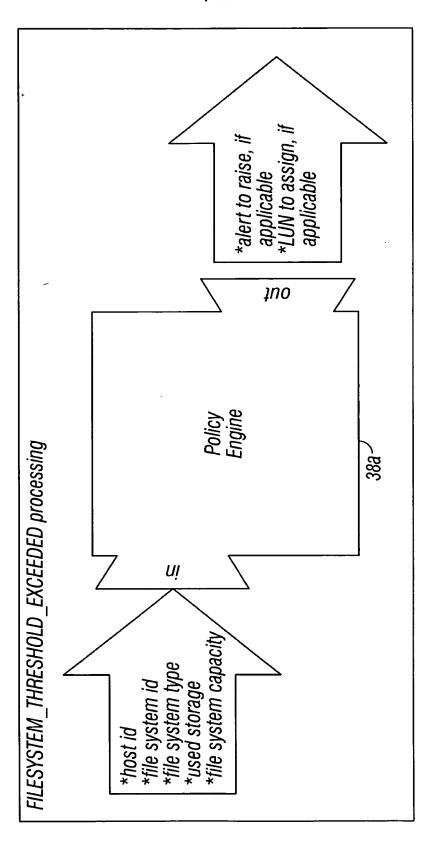


FIG. 7A

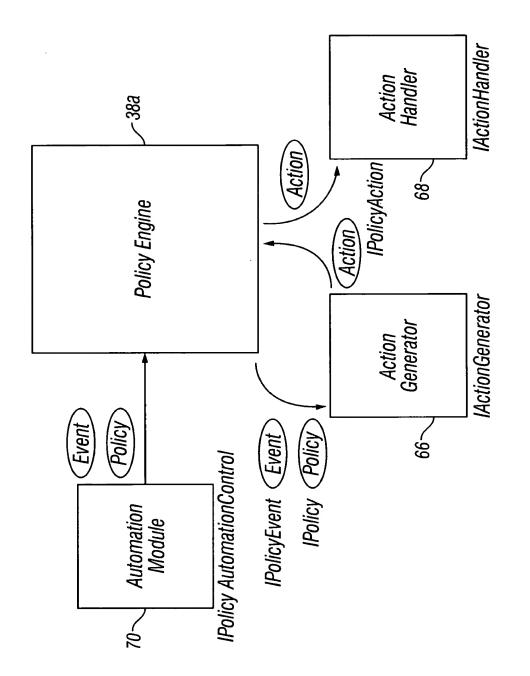


FIG. 7B

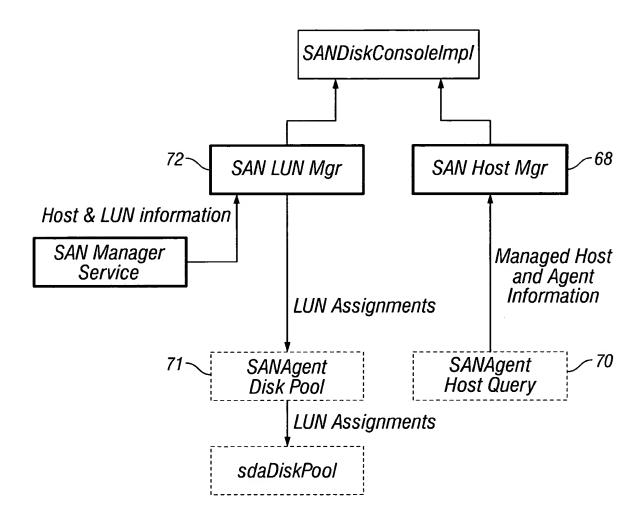


FIG. 8

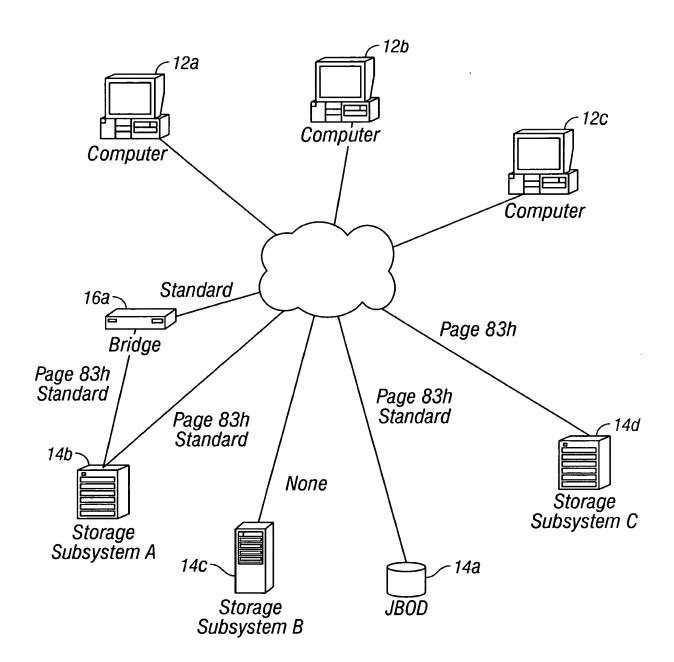
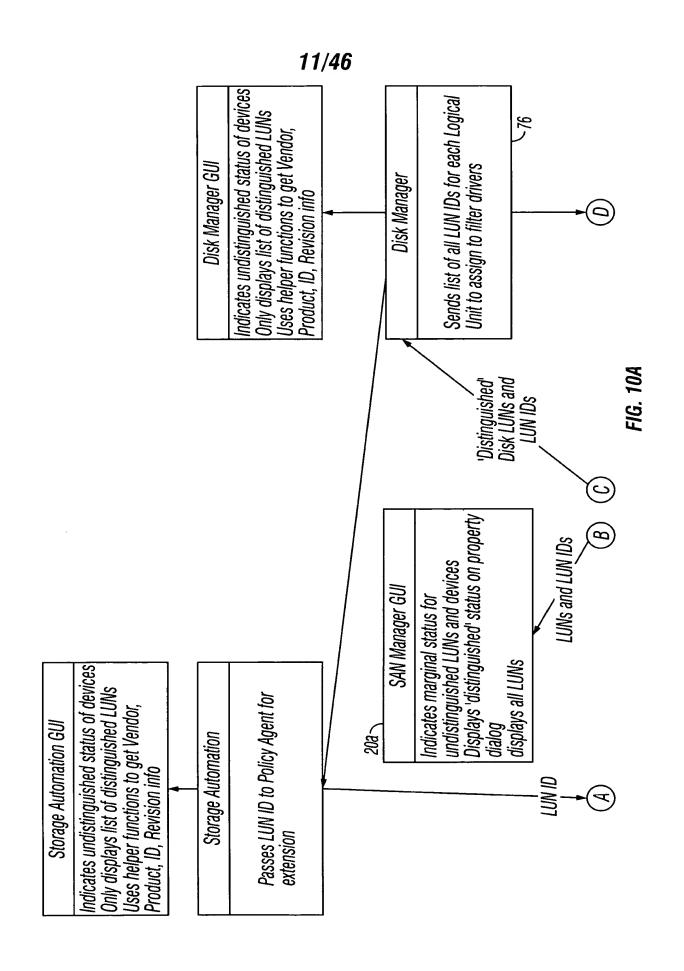


FIG. 9



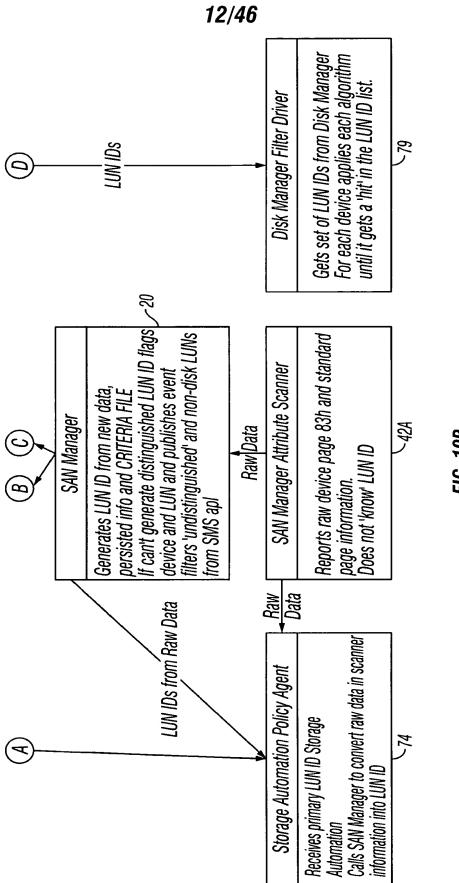
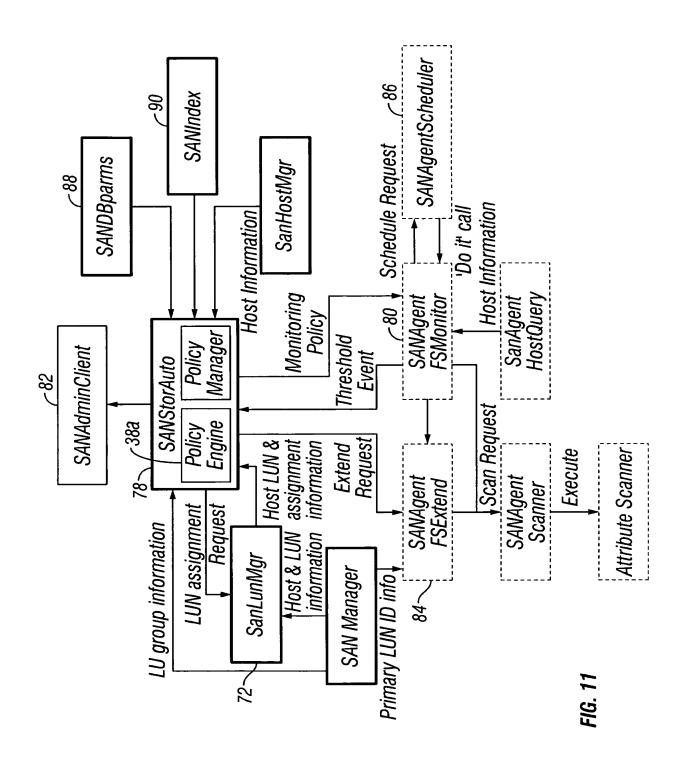


FIG. 10B



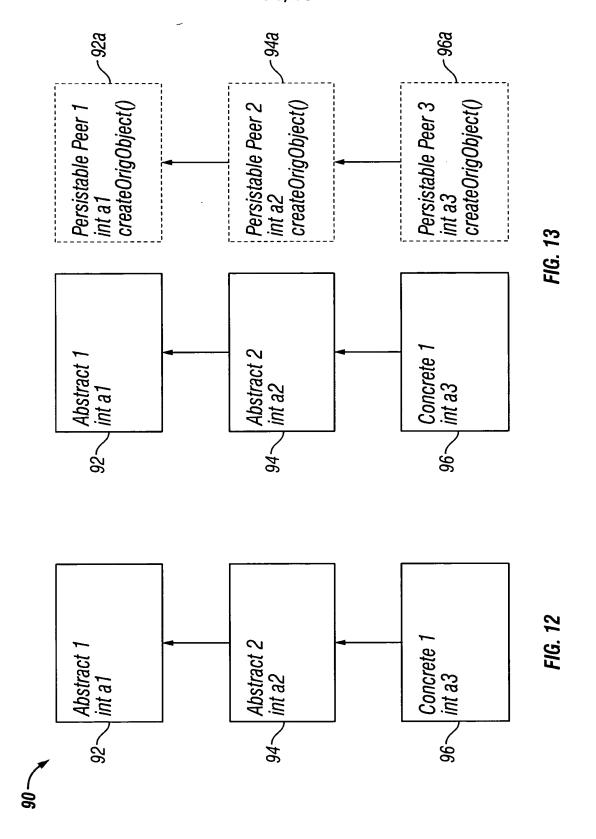
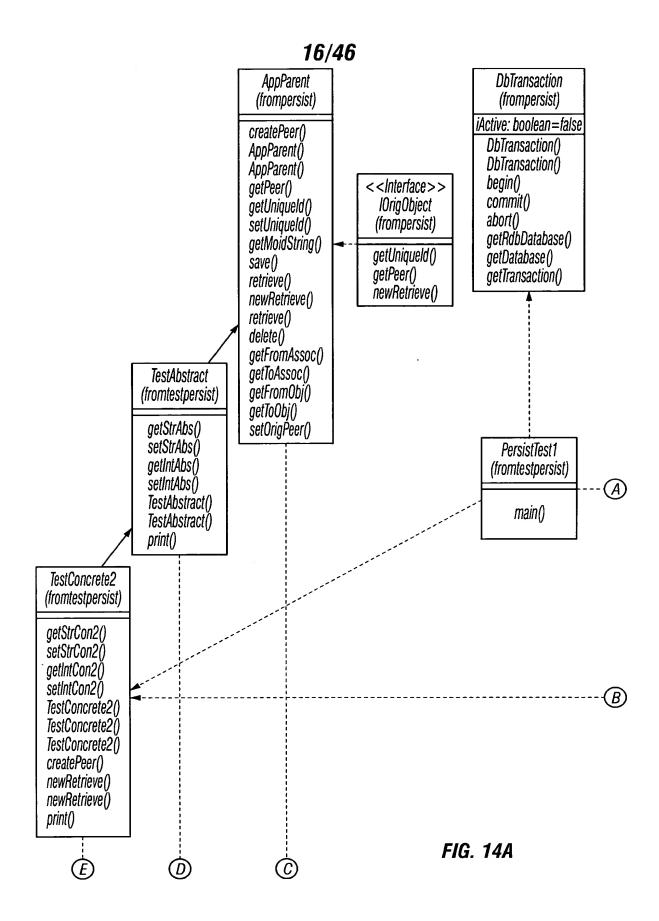
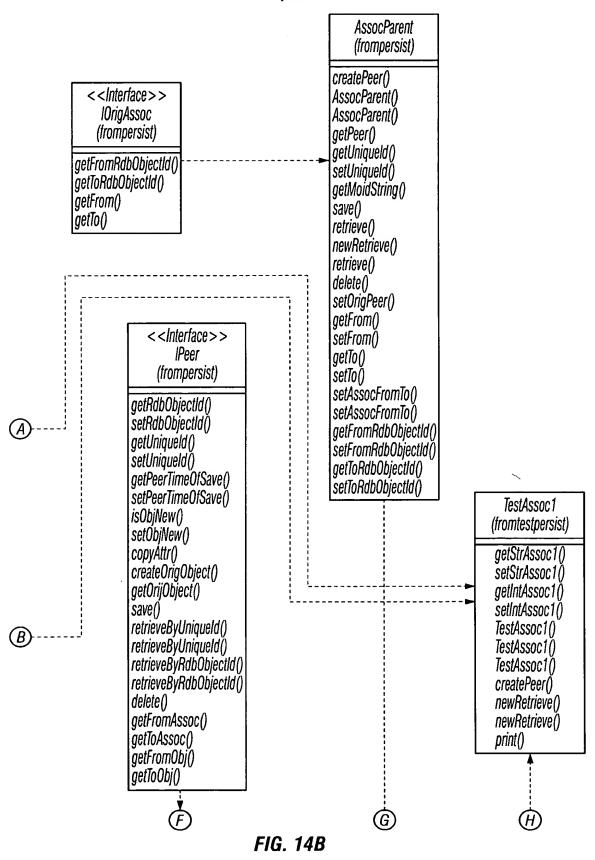
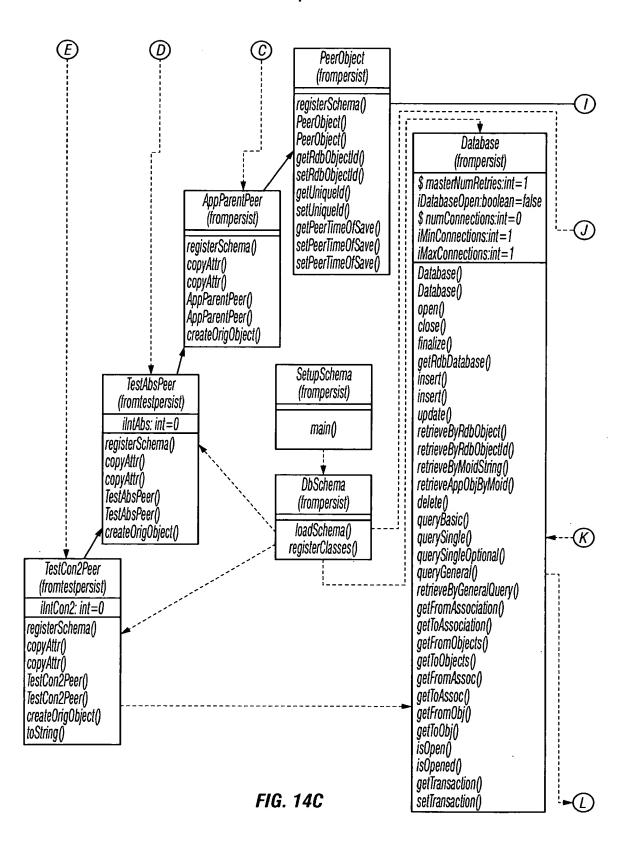


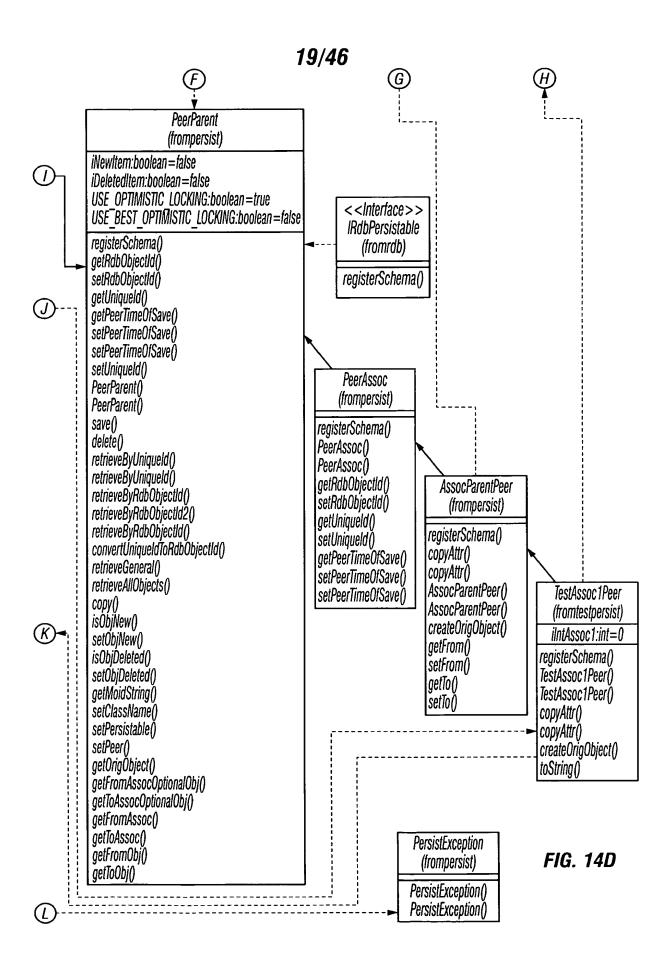
FIG. 14A FIG. 14B FIG. 14C FIG. 14D

FIG. 14













 GUI "looks up" the object by name in directory service and get the object "proxy"

Presentation

GUI server

GUI invokes object methods to obtain info or perform operation

TCP/IP - ORB

perform operation

Example: Class TDMServer()

LUN[] getAccessibleLunsByHost(HostaHost)

LUN[] getAccessibleLunsByHost(java.lang.String ip)

LUN[] getAllAccessibleLuns()

LUN[] getAssignedLunsByHost(HostaHost)

LUN[] getAssignedLunsByHost(java.lang.String ip)

20/46

//Look up the ITdm Server proxy object from the directory service ITdmServeraTdm=(ITdm Server) Namespace.lookup("//localhost:9000/sandir/TdmServer"); //Get a list of all LUN objects in the region. Lun[] temp1=aTdm.getAllAccessibleLuns();

FIG

machine B

W2K,AIX

Oracle

Voyager

Manager

			X	Г	1				11—	
						Type of Storage Device disk type	Product Id Product Id	Vital Product Data Vital Product Data	Unassign LUN	
			View Storage Devices		Storage Device 1 SN	Serial Number Storage Device 1 SN	External Label External Label	Vendor Vendor		
- Tivoli Console (Driver 7)	<u>M</u> anage Disks <u>W</u> indow <u>H</u> elp				ு் ¶ Storage Device 1 SI					♦ Welcome to the Tivoli Console ♦ View Storage Devices
- Tivol	Mana		\boxtimes]	Ma				Console
View Storage Devices	Console Edit View	多回 图 回 多	My Work	D About PF	> PF Samples	▷ Tivoli Administration ▽ Tivoli Storage Network, M Manage Disks	View Storage Devices		-	♦ Welcome to the Tivoli

FIG. 16

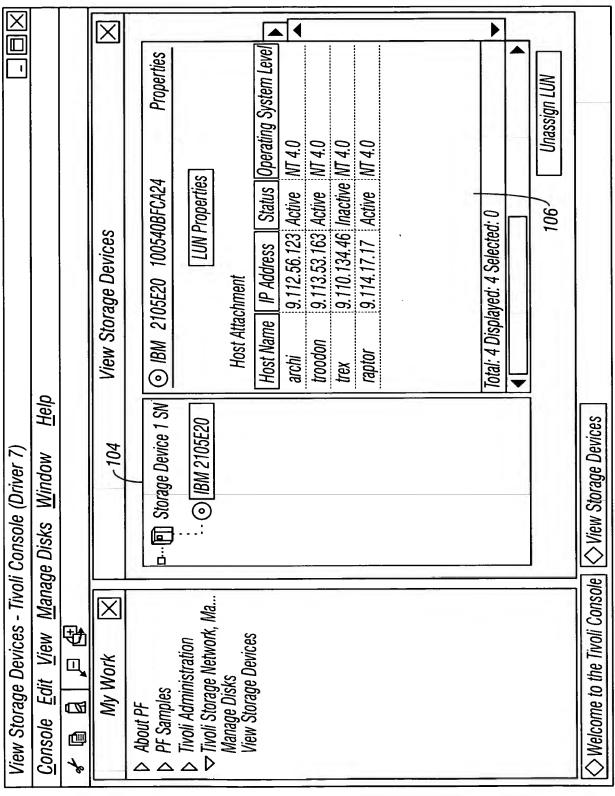
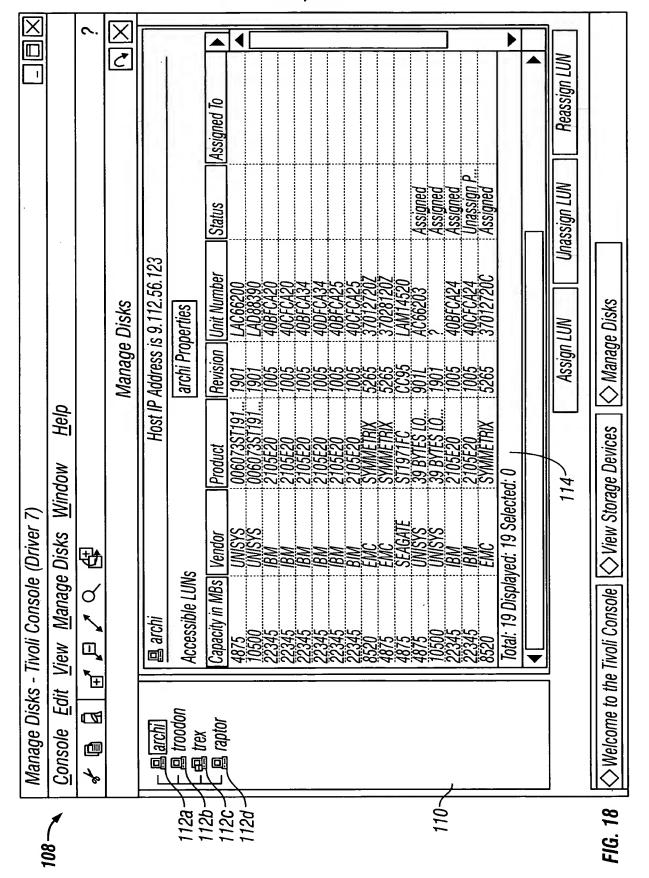


FIG. 17



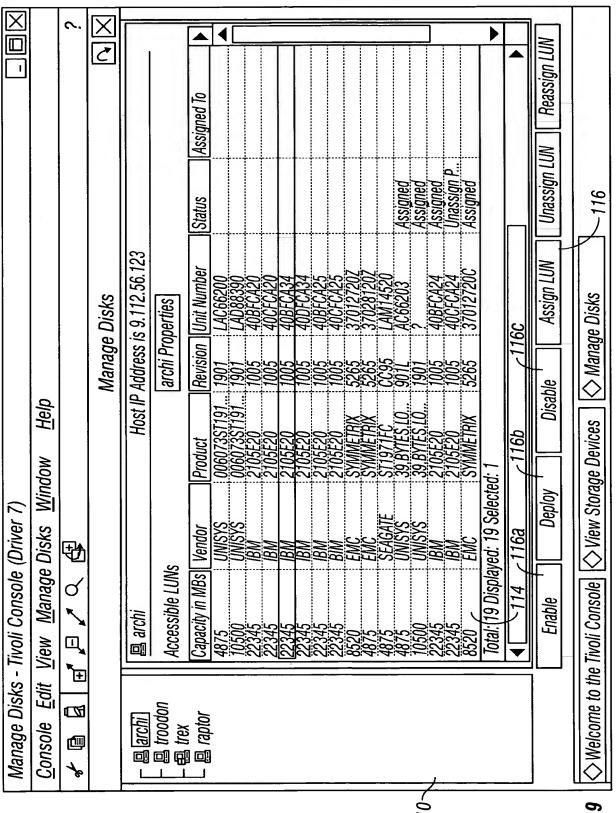
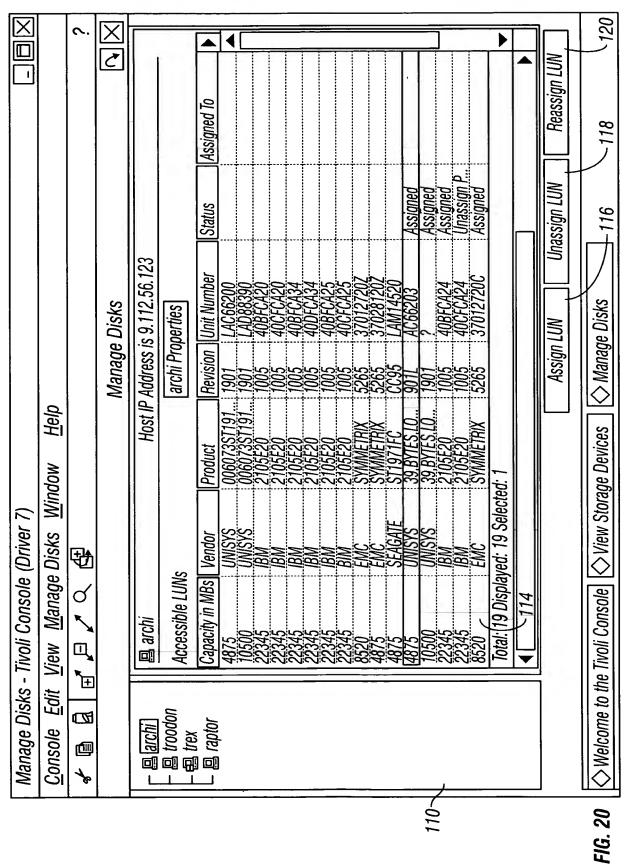


FIG. 19



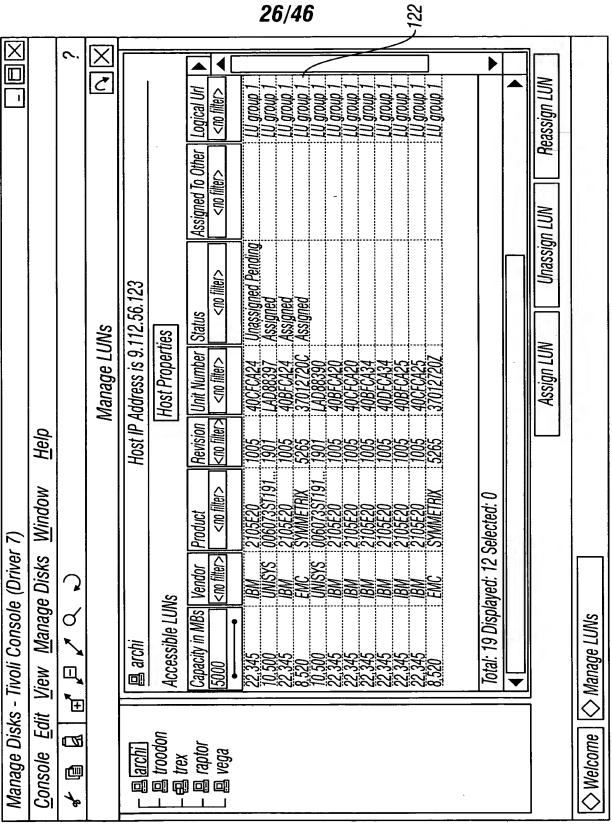


FIG. 21

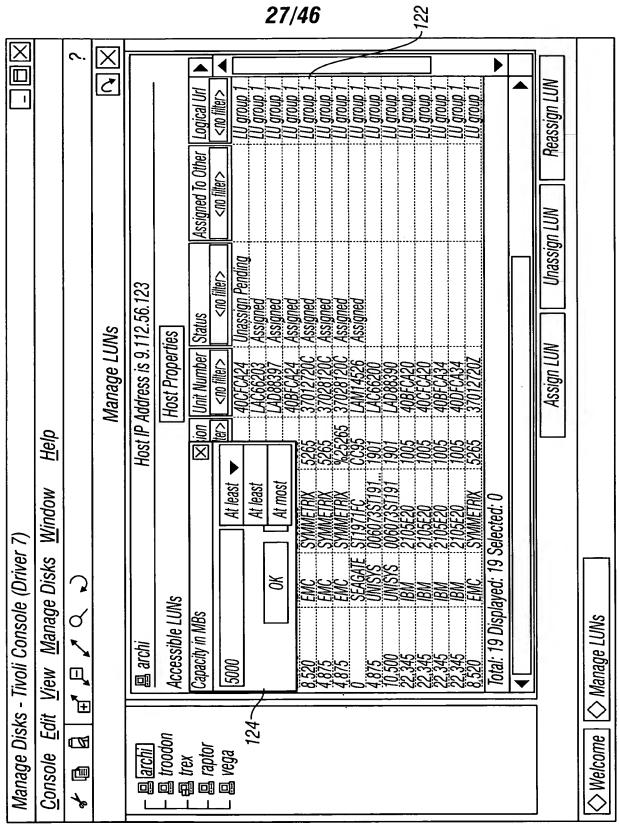


FIG. 22

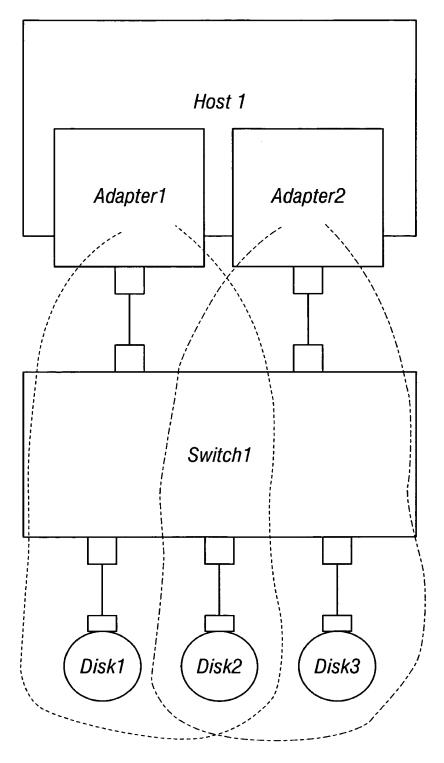
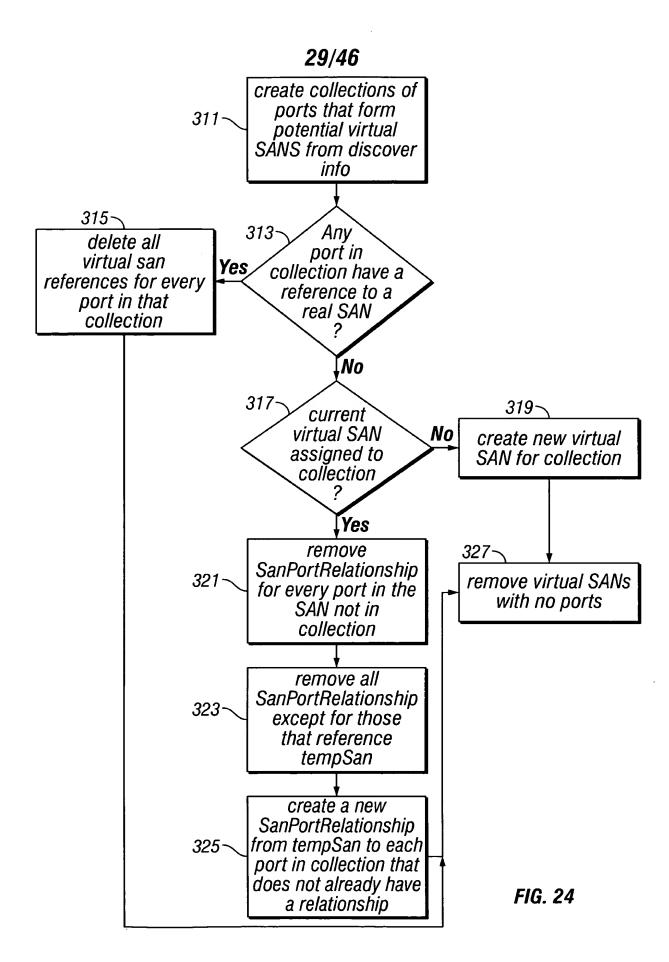


FIG. 23





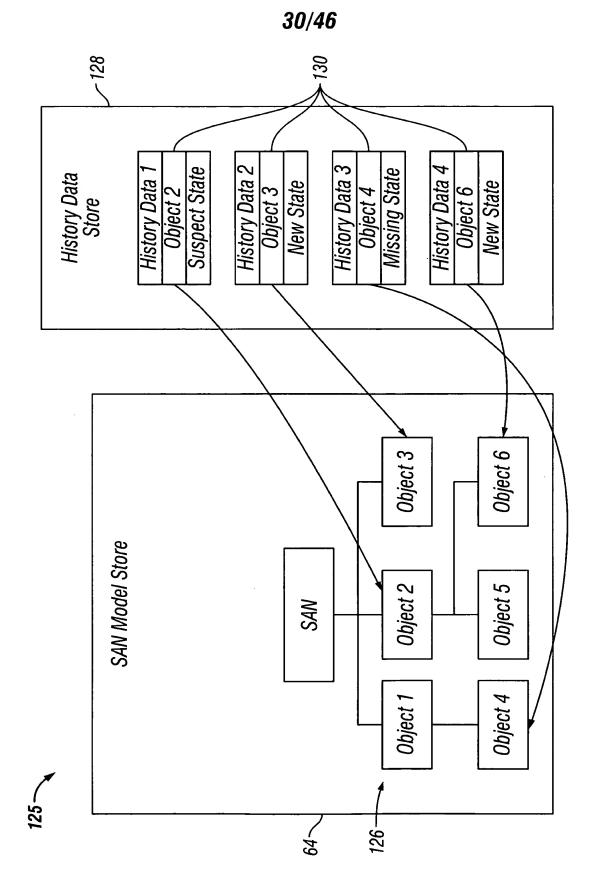


FIG. 25

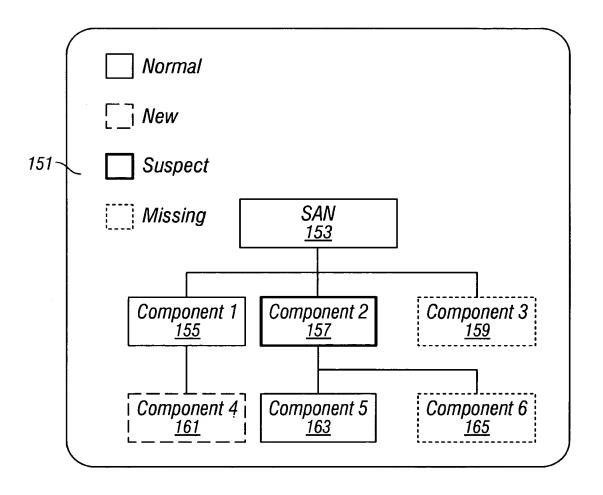


FIG. 26

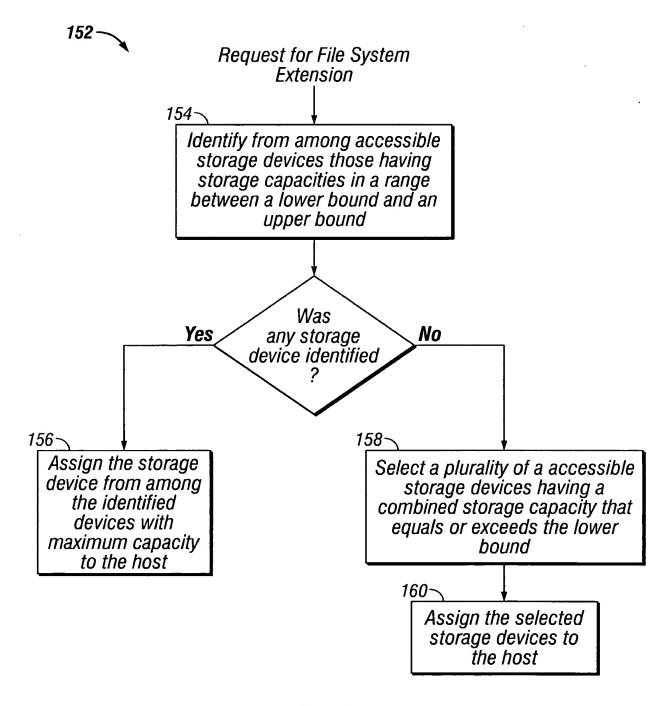
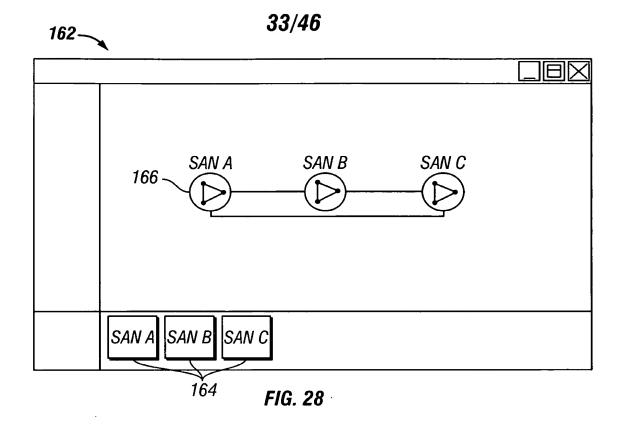


FIG. 27



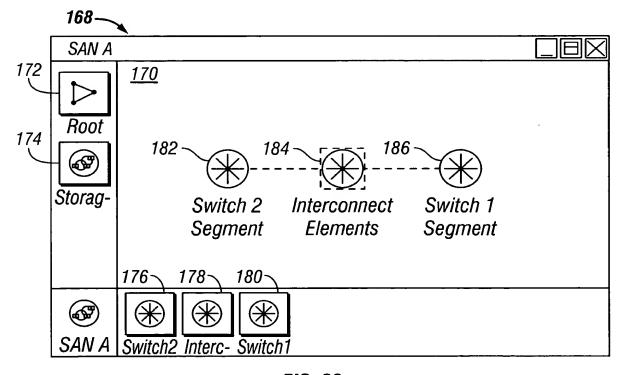


FIG. 29

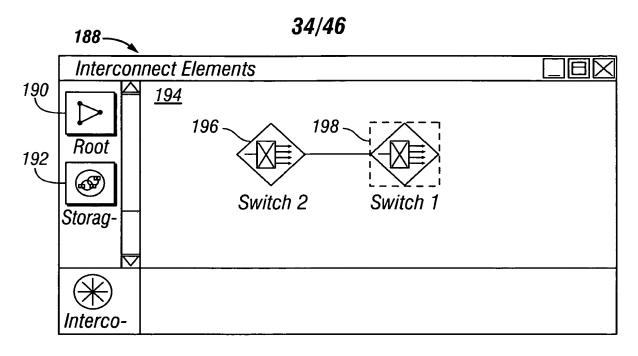


FIG. 30

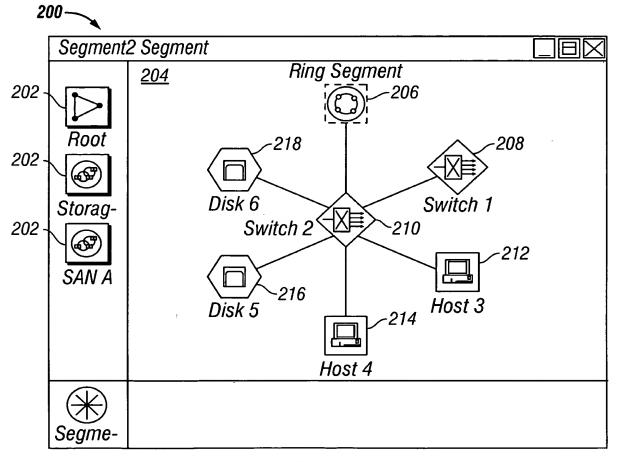


FIG. 31

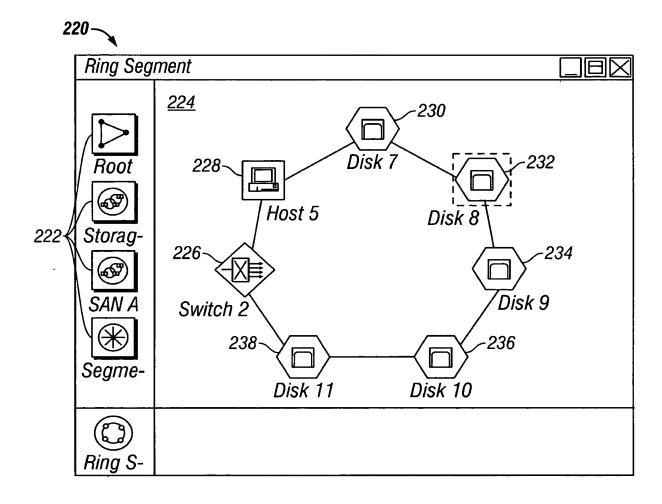
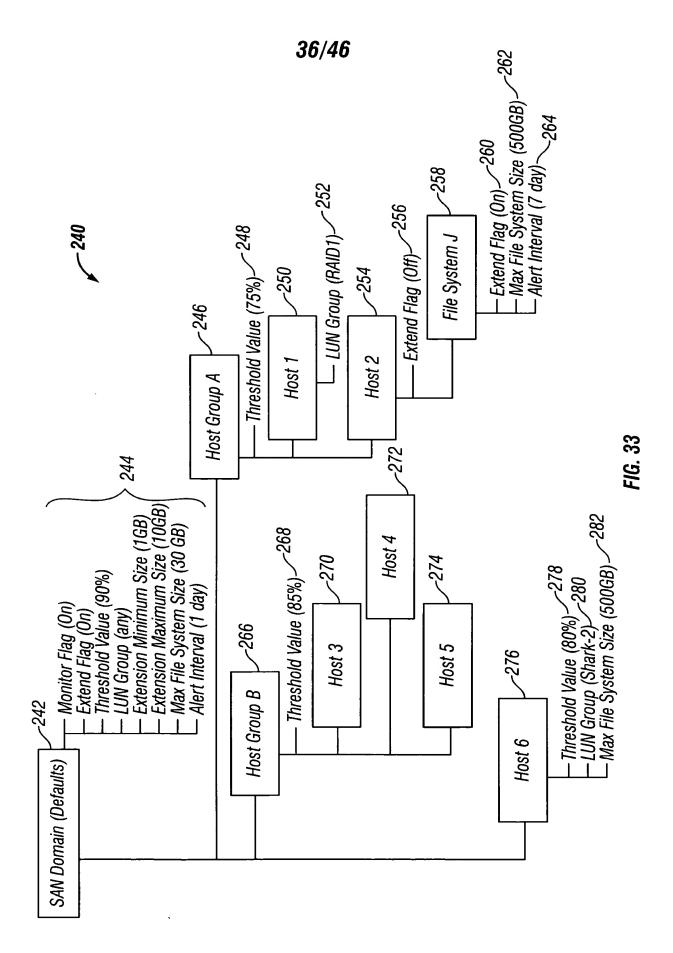


FIG. 32



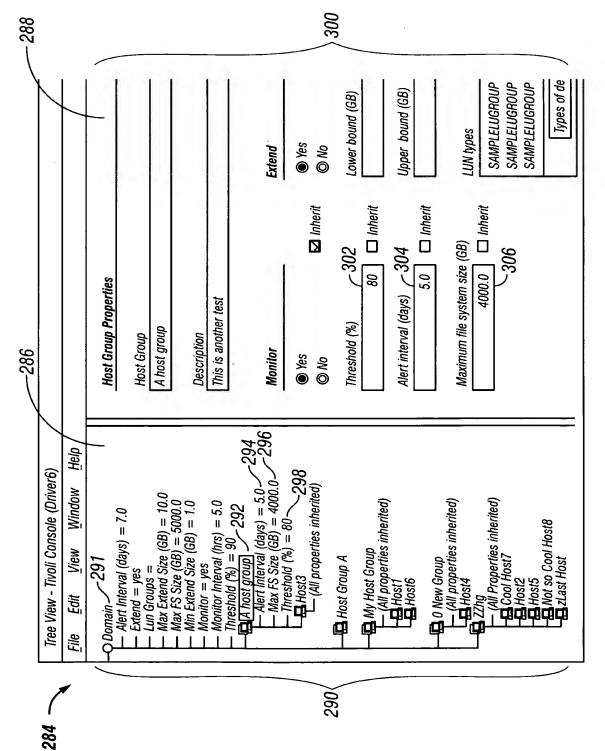


FIG. 34

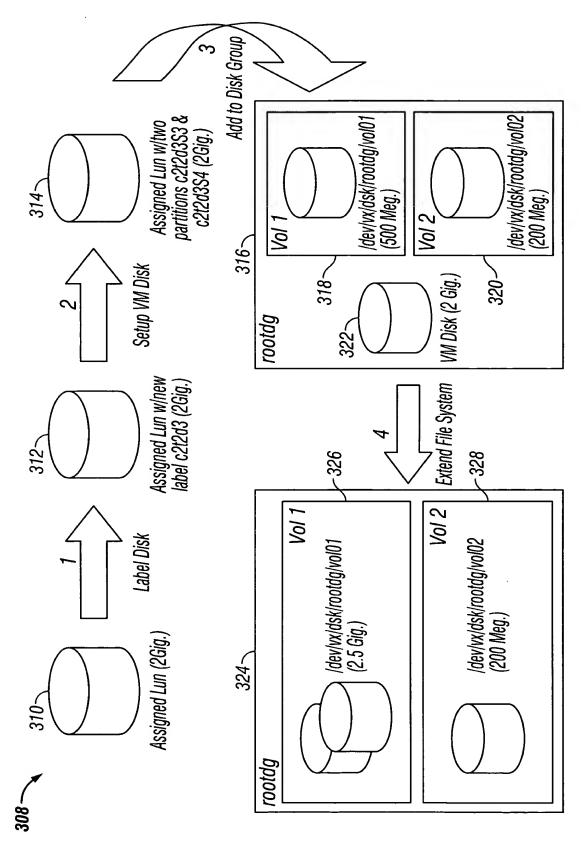


FIG. 35

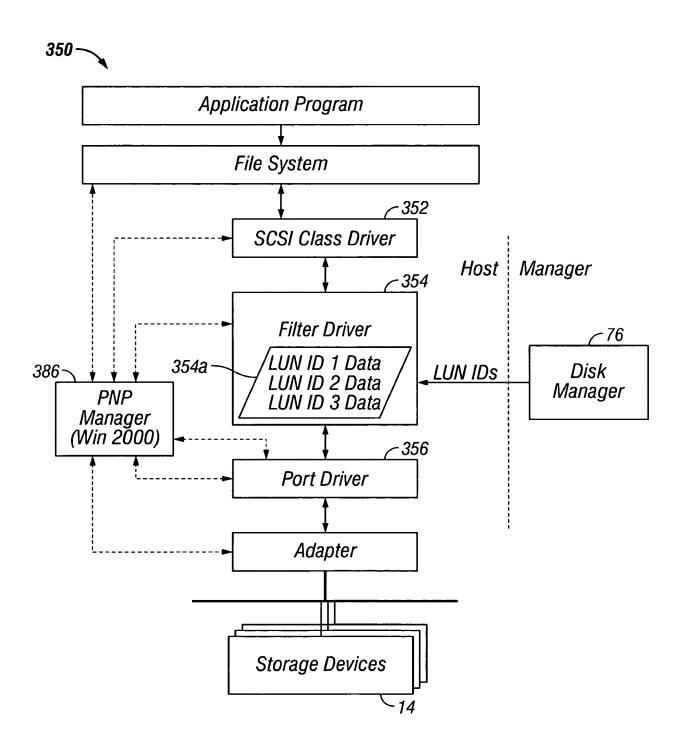
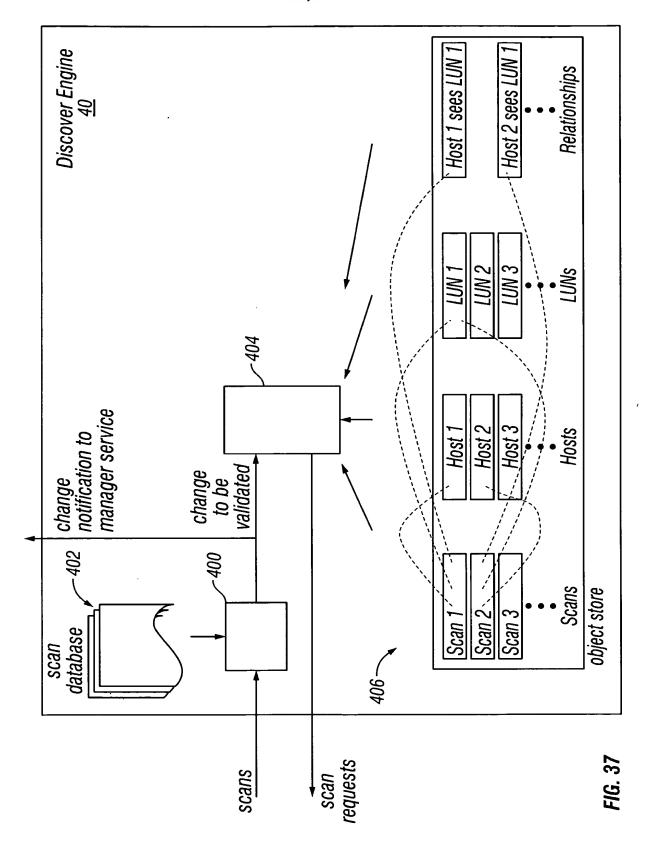
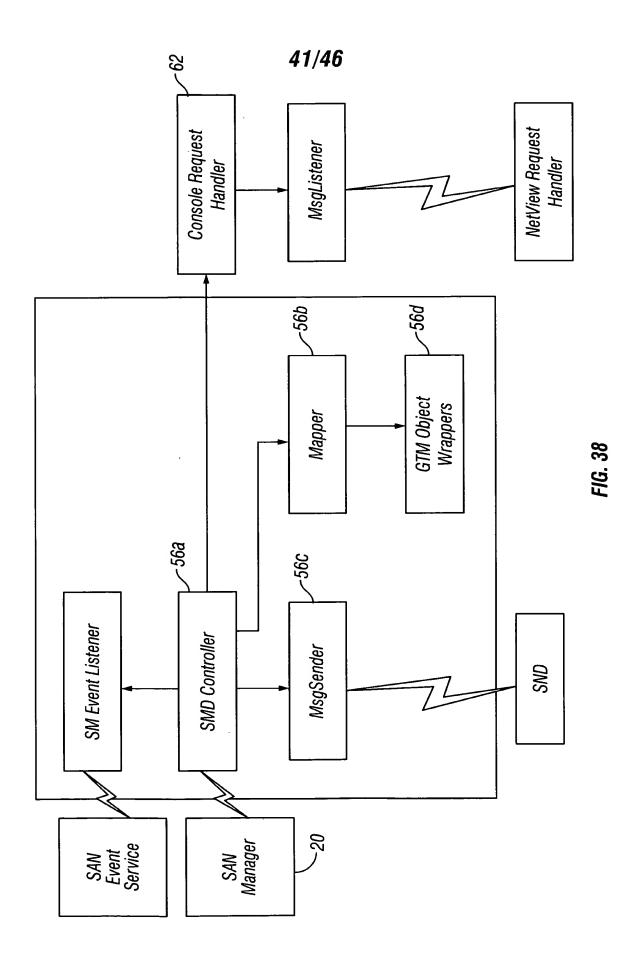


FIG. 36





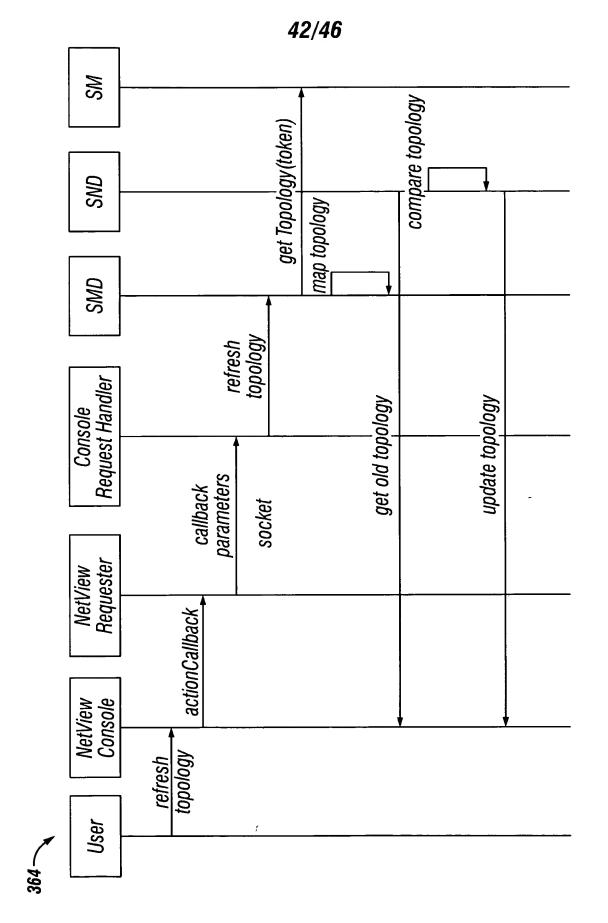
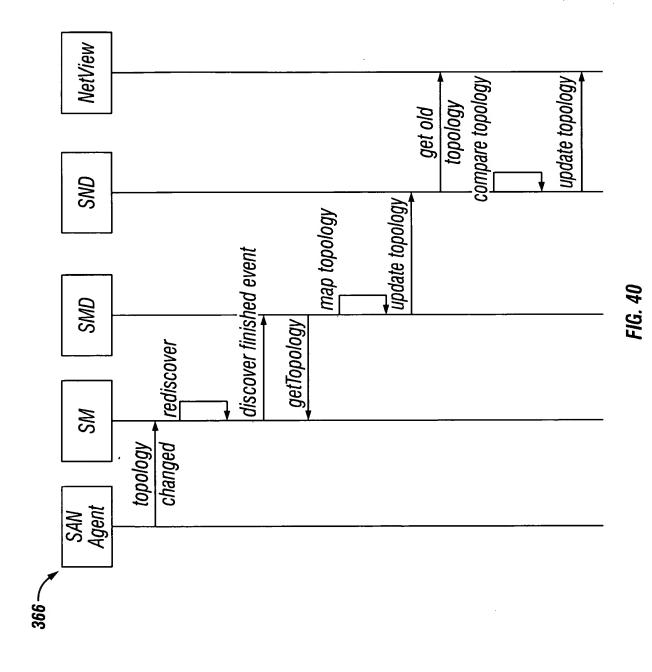
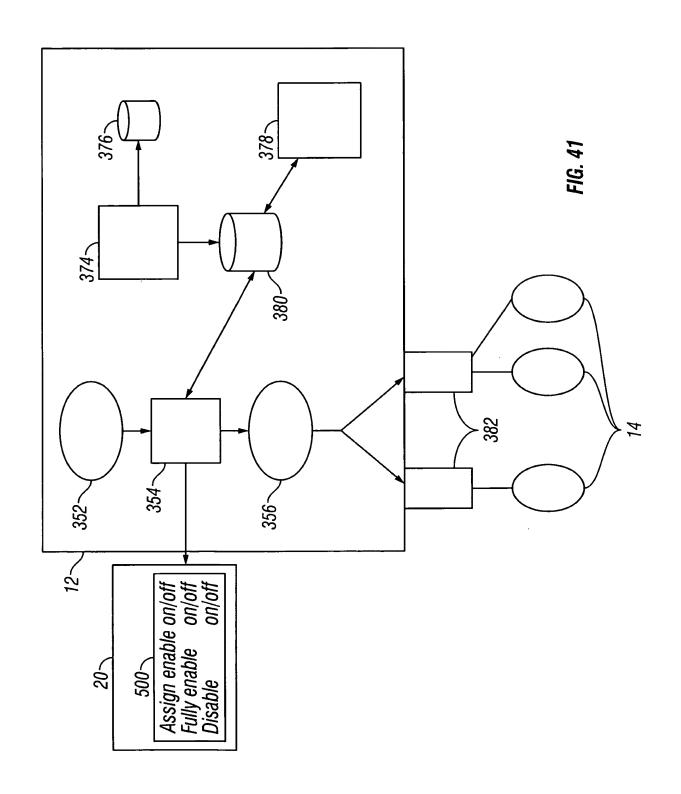
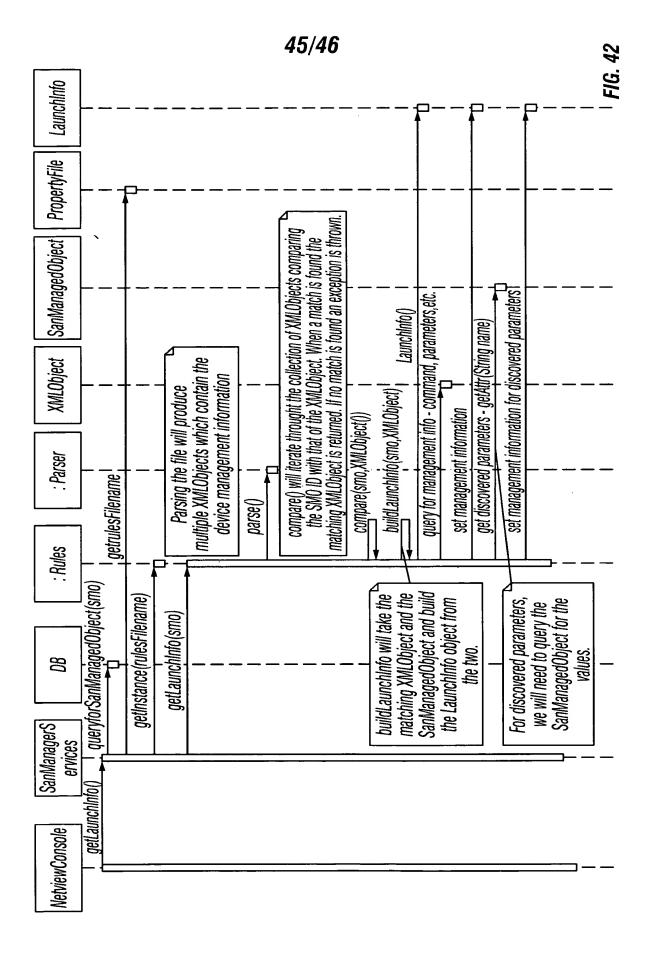
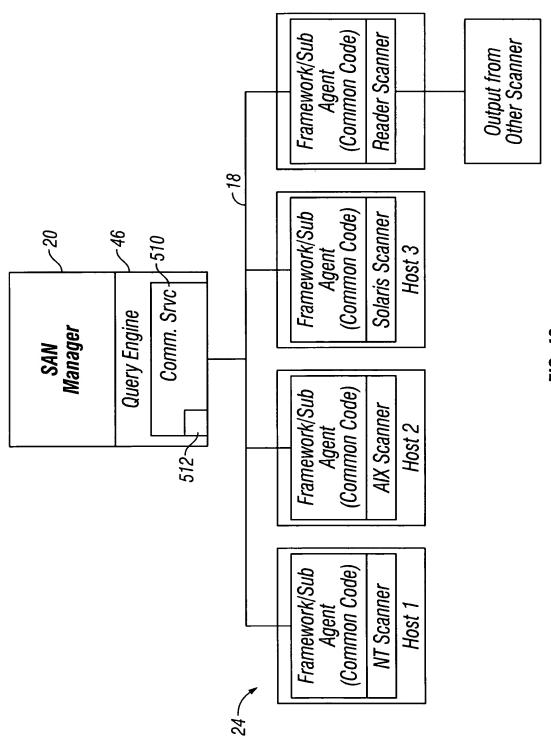


FIG. 39









F/G. 43